

# Receiving Report

Date: 13/12/17  
 Supplier: THYGO

Batch No: 4126301  
 Dart P/O: 20531

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection DAS ☒ N/A ☐  
 Work Order 16 13/07/18 N/A ☒  
 9-83

## Discrepancies

Part Number	Description

Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

Production/Admin: 13/12/17  
 Date    
 Received/Costing    
 Initial  

Location



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20531**

Purchase Order Date 7/11/2013

PO Print Date 7/11/2013

Page Number 1 of 4

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA



Contact Name  
Vendor Phone 905 669 9444

Ship To Contact  
Ship To Phone  
Ship Via: Yours ppd  
Ship Acct:

Buyer  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

M 126 357

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	List Price	Disc %	Discounted Unit Price	Extended Price
1	M6061T6B0.375X01.000  MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221	6061T6 BAR .375 x 1.00	7/18/2013 Yes 7/18/2013		36.00 f				\$30.00 ✓
Line Total:									\$30.00
2	M6061T6B0.500X02.500  SAME AS ABOVE	6061-T6 Bar .500 x 2.50	7/18/2013 Yes 7/18/2013		12.00 f				\$34.20 ✓
Line Total:									\$34.20
3	M6061T6B0.500X10.000  SAME AS ABOVE	6061-T6 Bar .500 x 10.00	7/18/2013 Yes 7/18/2013		12.00 f				\$134.90 ✓

Note:

7/11/2013

o. Sample

LINE 11 NEW PO

93/1/17



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20531**

Purchase Order Date 7/11/2013

PO Print Date 7/11/2013

Page Number 2 of 4

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444

**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

**Line Total:** **\$134.90**

4	M6061T6B0.750X01.000	6061-T6 Bar .750 x 1.00	7/18/2013	24.00		\$41.80 ✓
			Yes	f		
	SAME AS ABOVE		7/18/2013			

**Line Total:** **\$41.80**

5	M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50	7/18/2013	12.00	✓	\$30.40 ✓
			Yes	f		
	SAME AS ABOVE		7/18/2013			

**Line Total:** **\$30.40**

6	M6061T6B1.000X04.000	6061-T6 Bar 1.00 x 4.00	7/18/2013	48.00	✓	\$429.40 ✓
			Yes	f		
	SAME AS ABOVE		7/18/2013			

**Line Total:** **\$429.40**

**Note:**

7/11/2013



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20531**

Purchase Order Date 7/11/2013

PO Print Date 7/11/2013

Page Number 3 of 4

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444  
  
**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

7	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	7/18/2013	12.00	\$163.40
			Yes	f	
	SAME AS ABOVE		7/18/2013		

**Line Total:** \$163.40

8	M6061T6B1.000X12.000	6061-T6 Bar 1.00 x 12.00	7/18/2013	12.00	\$321.10
			Yes	f	
	SAME AS ABOVE		7/18/2013		

**Line Total:** \$321.10

9	M6061T6B30000X01.500	6061-T6 Bar 3.00 x 1.50	7/18/2013	12.00	\$119.70
			Yes	f	
	SAME AS ABOVE		7/18/2013		

**Line Total:** \$119.70

**Note:**

7/11/2013



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20531**

Purchase Order Date 7/11/2013

PO Print Date 7/11/2013

Page Number 4 of 4

**Order From :**  
VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To:** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444

**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

10	M6061T6B4.500X4.500	6061-T6 AluminumBar 4.500" X 4.500"	7/18/2013	8.00	\$384.00
	SAME AS ABOVE		No 7/18/2013	f	

**Line Total:** \$384.00

**PO Total:** \$1,688.90

**Note:** Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.  
No substitution or deviation without consent.  
Certificate of Conformity or Material Certification required - YES NO

**Change Nbr:** 1 **Change Date:** 7/11/2013



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20531**

Purchase Order Date 11/07/2013

PO Print Date 17/07/2013

Page Number 4 of 4

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444

**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

10	M6061T6B4.500X4.500	6061-T6 AluminumBar 4.500" X 4.500"	18/07/2013	8.00	\$384.00
			No	f	
	SAME AS ABOVE		18/07/2013		

**Line Total:** \$384.00

11	M6061T6B0.500X12.000	6061-T6 Bar .500 x 12.00	22/07/2013	12.00	\$134.90
			Yes	f	
			22/07/2013		

\*\*\*NOTE\*\*\*  
Specifications same as line #1.  
\*\*\*\*\*

143/7/17

**Line Total:** \$134.90

**PO Total:** \$1,823.80

**Note:** Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.  
No substitution or deviation without consent.  
Certificate of Conformity or Material Certification required - YES NO

**Change Nbr:** 2 **Change Date:** 17/07/2013



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20531**

Purchase Order Date 11/07/2013

PO Print Date 17/07/2013

Page Number 1 of 4

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 905 669 9444

Ship To Contact  
Ship To Phone  
Ship Via: Yours ppd  
Ship Acct:

Buyer  
Customer POID  
Customer Tax # 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	List Price	Disc %	Discounted Unit Price	Extended Price
1	M6061T6B0.375X01.000	6061T6 BAR .375 x 1.00	18/07/2013 Yes 18/07/2013		36.00 f				\$30.00
	MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221								
								Line Total:	\$30.00
2	M6061T6B0.500X02.500	6061-T6 Bar .500 x 2.50	18/07/2013 Yes 18/07/2013		12.00 f				\$34.20
	SAME AS ABOVE								
								Line Total:	\$34.20
3	M6061T6B0.500X10.000	6061-T6 Bar .500 x 10.00	18/07/2013 Yes 18/07/2013		12.00 f				\$134.90
	SAME AS ABOVE								

Note:

17/07/2013



Dart Aerospace Ltd.  
1270 Aberdeen Street  
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Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20531**

Purchase Order Date 11/07/2013

PO Print Date 17/07/2013

Page Number 2 of 4

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444  
  
**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

**Line Total: \$134.90**

4	M6061T6B0.750X01.000	6061-T6 Bar .750 x 1.00	18/07/2013	24.00	\$41.80
			Yes	f	
	SAME AS ABOVE		18/07/2013		

**Line Total: \$41.80**

5	M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50	18/07/2013	12.00	\$30.40
			Yes	f	
	SAME AS ABOVE		18/07/2013		

**Line Total: \$30.40**

6	M6061T6B1.000X04.000	6061-T6 Bar 1.00 x 4.00	18/07/2013	48.00	\$429.40
			Yes	f	
	SAME AS ABOVE		18/07/2013		

**Line Total: \$429.40**

**Note:**

17/07/2013





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20531**

Purchase Order Date 11/07/2013

PO Print Date 17/07/2013

Page Number 3 of 4

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444

**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** Destination-Collect

7	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	18/07/2013	12.00	\$163.40
			Yes	f	
	SAME AS ABOVE		18/07/2013		

**Line Total:** **\$163.40**

8	M6061T6B1.000X12.000	6061-T6 Bar 1.00 x 12.00	18/07/2013	12.00	\$321.10
			Yes	f	
	SAME AS ABOVE		18/07/2013		

**Line Total:** **\$321.10**

9	M6061T6B30000X01.500	6061-T6 Bar 3.00 x 1.50	18/07/2013	12.00	\$119.70
			Yes	f	
	SAME AS ABOVE		18/07/2013		

**Line Total:** **\$119.70**

**Note:**

17/07/2013

# Purchase Order Receipt Listing

Wednesday, July 17, 2013 1:51:52 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO20531 Receipt Dates from 7/17/2013 to 7/17/2013 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO20531	1		M6061T6B0.375X01. f 000		7/18/2013	7/17/2013	36.0000	\$0.79	0.0000	0	\$28.52
CAD	No		6061T6 BAR .375 x f 1.00 m126351		36.0000	DES102		\$28.52	0.0000	0	
	2		M6061T6B0.500X02. f 500		7/18/2013	7/17/2013	12.0000	\$2.71	0.0000	0	\$32.52
	No		6061-T6 Bar .500 x f 2.50 m126351		12.0000	DES102		\$32.52	0.0000	0	
	3		M6061T6B0.500X10. f 000		7/18/2013	7/17/2013	12.0000	\$10.69	0.0000	0	\$128.26
	No		6061-T6 Bar .500 x f 10.00 m126351		12.0000	DES102		\$128.26	0.0000	0	
	4		M6061T6B0.750X01. f 000		7/18/2013	7/17/2013	24.0000	\$1.66	0.0000	0	\$39.74
	No		6061-T6 Bar .750 x f 1.00 m126351		24.0000	DES102		\$39.74	0.0000	0	
	5		M6061T6B0.750X01. f 500		7/18/2013	7/17/2013	12.0000	\$2.41	0.0000	0	\$28.90
	No		6061-T6 Bar .750 X f 1.50 m126351		12.0000	DES102		\$28.90	0.0000	0	
	6		M6061T6B1.000X04. f 000		7/18/2013	7/17/2013	48.0000	\$8.51	0.0000	0	\$408.27
	No		6061-T6 Bar 1.00 x f 4.00 m126351		48.0000	DES102		\$408.27	0.0000	0	

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<b>Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd</b>											
PO20531	7		M6061T6B1.000X06. f 000		7/18/2013	7/17/2013	12.0000	\$12.95	0.0000	0	\$155.36
CAD	No		6061T6 BAR 1.00 X f 6.00		12.0000	DESJ02		\$155.36	0.0000	0	
			m126351								
	8		M6061T6B1.000X12. f 000		7/18/2013	7/17/2013	12.0000	\$25.44	0.0000	0	\$305.30
	No		6061-T6 Bar 1.00 x f 12.00		12.0000	DESJ02		\$305.30	0.0000	0	
			m126351								
	9		M6061T6B30000X01 f .500		7/18/2013	7/17/2013	12.0000	\$9.48	0.0000	0	\$113.81
	No		6061-T6 Bar 3.00 x f 1.50		12.0000	DESJ02		\$113.81	0.0000	0	
			m126351								
	10		M6061T6B4.500X4.5 f 00		7/18/2013	7/17/2013	8.0000	\$45.64	0.0000	0	\$365.11
	No		6061-T6 Aluminum Bar 4.500" X 4.500" f		8.0000	DESJ02		\$365.11	0.0000	0	
			m126351								
	11		M6061T6B0.500X12. f 000		7/22/2013	7/17/2013	12.0000	\$10.69	0.0000	0	\$128.26
	No		6061-T6 Bar .500 x f 12.00		12.0000	DESJ02		\$128.26	0.0000	0	
			m126351								
<b>Total Received Quantity:</b> <b>Total Qty to Inspect (PO U/M):</b> <b>Total Reject Quantity:</b> <b>Total Receipt Value:</b> <b>Total Balance Due Quantity:</b>											200.0000 0.0000 0.0000 \$1,734.07 0.0000

## Q U O T A T I O N

No: PEC ST-585830

Quoted By:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: ( 20115)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7

Quoted Ship To: ( 1)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Qtd 11Jul13 Qte Ref  
 Frt PREPAID Via FOB  
 Tel 613-632-9577 Fax 613-632-1053 Ctc CHANTAL  
 Slp STAN IVERS (905-532-1350)

## Q U O T A T I O N

QT No: PEC ST-585830

Test Certs: Chem-Y Phys-Y 1 Original copies with Shipment, 1 with Invoice

1 ALUMINUM FLAT BAR 6061-T6511	3 PCS	16 LBS
.375" x 1.00" X 144.0000"		36 FT
MATERIAL	36 FT @ .8333 FT	30.00
ENERGY & CAP SURCHG	25.0000 LOT	25.00
2 ALUMINUM FLAT BAR 6061-T6511	1 PCS	18 LBS
.50" x 2.50" X 144.0000"		12 FT
MATERIAL	12 FT @ 2.8500 FT	34.20
3 ALUMINUM FLT BAR ECONOPLT 6061-T6511	1 PCS	71 LBS
.500" X 10.00" X 144.0000"		12 FT
MATERIAL	12 FT @ 11.2417 FT	134.90
4 ALUMINUM FLAT BAR 6061-T6511	2 PCS	22 LBS
.750" x 1.00" X 144.0000"		24 FT
MATERIAL	24 FT @ 1.7417 FT	41.80
5 ALUMINUM FLAT BAR 6061-T6511	1 PCS	16 LBS
.750" X 1.50" X 144.0000"		12 FT
MATERIAL	12 FT @ 2.5333 FT	30.40
6 ALUMINUM FLAT BAR 6061-T6511	4 PCS	226 LBS
1.00" x 4.00" X 144.0000"		48 FT
MATERIAL	48 FT @ 8.9458 FT	429.40
7 ALUMINUM FLAT BAR 6061-T6511	1 PCS	86 LBS
1.00" x 6.00" X 144.0000"		12 FT
MATERIAL	12 FT @ 13.6167 FT	163.40
8 ALUMINUM FLT BAR ECONOPLT 6061-T6511	1 PCS	169 LBS
1.00" X 12.00" X 144.0000"		12 FT
MATERIAL	12 FT @ 26.7583 FT	321.10

## Q U O T A T I O N

No: PEC ST-585830

## Quoted By:

THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: ( 20115)  
 DART AEROSPACE

Quoted Ship To: ( 1)  
 DART AEROSPACE

## Q U O T A T I O N

QT No: PEC ST-585830

9 ALUMINUM FLAT BAR 6061-T6511 1 PCS 63 LBS  
 1.50" x 3.00" X 144.0000" 12 FT @ 9.9750 FT 119.70  
 MATERIAL

10 ALUMINUM SQUARE BAR 6061-T6511 1 PCS 192 LBS  
 4.50" X 96.0000" 8 FT

&lt;&lt;&lt;----- SPECIFICATIONS -----&gt;&gt;&gt;

Ga Tol + 0.0000 - 0.0000 Pc/Tag 1

WthTol + 0.0000 - 0.0000 Wt/Skd

LthTol + 0.1250 - 0.0000 Ty Pk

MATERIAL 8 FT @ 48.0000 FT 384.00

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
 TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

Price in effect at time of shipment.

Price based on receipt of total order.

All weights are theoretical.

All orders are subject to credit approval.

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\* CUSTOMER PICK-UP HOURS \*\*\*

\*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL!!!! \* \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \* \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
 ADDED TO EVERY ORDER.\*\*\*

\*\*\*\*\*

\*FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE

\*VISIT OUR WEBSITE: [www.copperandbrass.com](http://www.copperandbrass.com)

\*\*\*\*\*

Order Totals: 10 Items 879 LBS

\*\*\*\*\*

Material	Processing	Freight	Other	Taxes	ORDER AMT
1,688.90			25.00	222.80	1,936.70

\*\*\*\*\*

Taxes: ONHSTS	222.80	0.00	0.00	0.00
---------------	--------	------	------	------

Sold By:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 905-738-9033

Sold To:    ( 20115)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7

Ship To:    ( 1)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS

Frt PREPAID

Con 96294

Slp STAN IVERS (905-532-1350)

Ord 11Jul13 Due15Jul13

Via VIM TRANSFER

FOB CONCORD

PO/Rel 20531

Tel 613-632-9577 Fax 613-632-1053

## S A L E S   A C K N O W L E D G M E N T

SO No PEC ST-586090

Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice

1 ALUMINUM FLAT BAR 6061-T6511	3 PCS	16 LBS
.375" x 1.00" X 144.0000"		36 FT
MATERIAL	36 FT @ .8333 FT	30.00
ENERGY & CAP SURCHG	25.0000 LOT	25.00
2 ALUMINUM FLAT BAR 6061-T6511	1 PCS	18 LBS
.50" x 2.50" X 144.0000"		12 FT
MATERIAL	12 FT @ 2.8500 FT	34.20
3 ALUMINUM FLT BAR ECONOPLT 6061-T6511	1 PCS	71 LBS
.500" X 10.00" X 144.0000"		12 FT
MATERIAL	12 FT @ 11.2417 FT	134.90
4 ALUMINUM FLAT BAR 6061-T6511	2 PCS	22 LBS
.750" x 1.00" X 144.0000"		24 FT
MATERIAL	24 FT @ 1.7417 FT	41.80
5 ALUMINUM FLAT BAR 6061-T6511	1 PCS	16 LBS
.750" X 1.50" X 144.0000"		12 FT
MATERIAL	12 FT @ 2.5333 FT	30.40
6 ALUMINUM FLAT BAR 6061-T6511	4 PCS	226 LBS
1.00" x 4.00" X 144.0000"		48 FT
MATERIAL	48 FT @ 8.9458 FT	429.40
7 ALUMINUM FLAT BAR 6061-T6511	1 PCS	86 LBS
1.00" x 6.00" X 144.0000"		12 FT
MATERIAL	12 FT @ 13.6167 FT	163.40
8 ALUMINUM FLT BAR ECONOPLT 6061-T6511	1 PCS	169 LBS
1.00" X 12.00" X 144.0000"		12 FT
MATERIAL	12 FT @ 26.7583 FT	321.10
9 ALUMINUM FLAT BAR 6061-T6511	1 PCS	63 LBS
1.50" x 3.00" X 144.0000"		12 FT
MATERIAL	12 FT @ 9.9750 FT	119.70

Sold By:  
 THYSSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: ( 1)  
DART AEROSPACE

Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice

```
<<<----- SPECIFICATIONS ----->>>
```

[illegible]

ATTN: CHANTAL/LINDA

**\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\***

\*\* REFERENCED ON IT \*\*

\*\* CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM \*\*

\*\*\* TEL. 800-926-2600 \*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL!!!! \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

\*\*\*\*\*

\*FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE

\*VISIT OUR WEBSITE: [www.copperandbrass.com](http://www.copperandbrass.com)

\*\*\*\*\*

Order Totals: 10 Items 879 LBS

\*\*\*\*\*

Material	Processing	Freight	Other	Taxes	ORDER AMT
1,688.90			25.00	222.80	1,936.70

\*\*\*\*\*

Taxes: ONHSTS 222.80

## B I L L O F L A D I N G

No: PEC 832058

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 16Jul13 at 9:42 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7

Ship To: ( 1)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7  
 Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-586090- 1 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

.375" x 1.00" X 144.0000"

Heat Number

21385265

Tag No

198419

Quantity

36 FT

PCS

3

Wt LBS

16

MTR

2) Our Order PEC-586090- 2 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

.50" x 2.50" X 144.0000"

Heat Number

21288872

Tag No

198420

Quantity

12 FT

PCS

1

Wt LBS

17

MTR

3) Our Order PEC-586090- 3 Your PO # 20531

ALUMINUM FLT BAR ECONOPLT 6061-T6511

.500" X 10.00" X 144.0000"

Heat Number

Z00191031

Tag No

198421

Quantity

12 FT

PCS

1

Wt LBS

69

Ligne 11 sur Po

MTR

4) Our Order PEC-586090- 4 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

.750" x 1.00" X 144.0000"

Heat Number

201308343

Tag No

198422

Quantity

24 FT

PCS

2

Wt LBS

23

MTR

5) Our Order PEC-586090- 5 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

.750" X 1.50" X 144.0000"

Heat Number

201310405

Tag No

198423

Quantity

12 FT

PCS

1

Wt LBS

16

MTR

Page: 1 ....Continued

13.7.17

2-BD/S

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE  
 RAPPORTEES IMMEDIATEMENT  
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY  
 RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER



## B I L L O F L A D I N G

No: PEC 832058

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 16Jul13 at 9:42 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: (20115)  
DART AEROSPACE

Ship To: (1)  
DART AEROSPACE

## B I L L O F L A D I N G

6) Our Order PEC-586090- 6 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

1.00" x 4.00" X 144.0000"

Heat Number

201313249

Tag No

198424

Quantity

36 FT

PCS

3

Wt LBS

174

7) Our Order PEC-586090- 7 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

1.00" x 6.00" X 144.0000"

Heat Number

201309168

Tag No

198425

Quantity

12 FT

PCS

1

Wt LBS

86

8) Our Order PEC-586090- 8 Your PO # 20531

ALUMINUM FLT BAR ECONOPLT 6061-T6511

1.00" X 12.00" X 144.0000"

Heat Number

Z00014042

Tag No

198426

Quantity

12 FT

PCS

1

Wt LBS

171

9) Our Order PEC-586090- 9 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

1.50" x 3.00" X 144.0000"

Heat Number

201303343

Tag No

198427

Quantity

12 FT

PCS

1

Wt LBS

63

10) Our Order PEC-586090- 10 Your PO # 20531

ALUMINUM SQUARE BAR 6061-T6511

4.50" X 96.0000"

Heat Number

21382208

Tag No

198605

Quantity

8 FT

PCS

1

Wt LBS

192

TOTAL:

Tags  
10PCS  
15LBS  
827

Heat Number

\*\*\* Chemical Analysis \*\*\*

Page: 2 ....Continued

P13717

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE  
RAPPORTÉES IMMEDIATEMENT.  
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.  
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

SHIP FROM: THYSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

SHIP TO: ( 1 )  
DART AEROSPACE

NO: PEC 832058  
SHIP DATE 16Jul13 at 9:42 From PFW  
PROBILL  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115 )  
DART AEROSPACE

B I L L O F L A D I N G

201303343  
201308343  
201309168  
201310405  
201313249  
21288872  
21382208  
21385265  
Z00014042  
Z00191031

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

TOTAL 2 BDLs G.W. 874 LBS

ITEMS (1-9) BDL  
ITEM (10) BDL

\*CUSTOMER PICK-UP HRS AT THYSENKRUPP MATERIALS NA  
CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*  
\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*  
\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 3 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE  
RAPPORTEES IMMEDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLAT BAR 6061-T6511

3.75" x 1.00" x 144.0000"

PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results  
BL PEC-832058-001  
16Jul13  
Pg 1/2

**Sapa**

Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K 5C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD

CONCORD, ON - L4K 5C6

## Certified Inspection Report

Sales Order Number	Line No.	Customer P/O
1100600218	4	PEC-348184-4

Cert Number	Page
SAP A/60904	1 of 2
Cert Creation Date	Cert Print Date
07-MAY-13	07-MAY-13

Quantity Shipped	Unit	Date Shipped	Item Description	Specification
730	LB	07-MAY-13	Extruded Rectangular Bar 0.3125" x 1.000" W RAID	ASTM B221 REV 12A AMS-QQ-A-2008 REV 1997 ASME SB221 REV 09 UNSWA96061 REV
375X1			Item No.	
			Delivery Id	
			Customer Part No.	

COMPOSITION NOTE: The values for Others Each and Others Total have met the limits as shown on this certified inspection report. Remainder is Aluminum.

**Legal Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal constituent in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature and Title  
*William T. Martin, III*  
William Martin III  
Tech/Quality Manager  
07-MAY-13

Quantities per Lot / Packages	Lot Number	Quantity	Weight
Package Number:			
G12 PKG1930230	21385255	138 PCS	Gross 736 Net 730

Composition Limits														
Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80	—	0.70	0.15	0.40	—	0.15	0.80	1.20	0.04	0.35	—	0.25

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
3.75" x 1.00" x 144.0000"  
PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-832058-001

16Jul13  
Pg 2/2

Signed by:

**sapa**

Sapa Industrial Extrusions  
53 HOTTISVILLE STREET  
CRENSHAW, PA  
17929-0187

### Certified Inspection Report

Sales Order Number 1100603218  
Line No. 4  
Customer P/O PUC-248184-4

Cert Number SAPA760904  
Page 2 of 2  
Cert Creation Date 07-MAY-13  
Cert Issue Date 07-MAY-13

Alloy	T	Si	Mn	Pb	Others Total	Others Total
6061	Min	Max	Min	Max	Min	Max
	0.15	0.05	0.05	0.05	0.15	

#### Composition Results

Heat / Cast	Si	Pb	Cu	Mg	Gr	Zn	Ti	Al	Fe	Others Total	Others Total
5001698	0.72	0.26	0.25	0.05	0.03	0.06	0.02	0.02			

#### Mechanical Property - Test Limits

Test Type	UTS - L	UTS - L	EL. Elong
Yield	Yield	Yield	Yield
6061	45.8	48.1	16.2
6061	45.8	48.1	16.2

#### Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.  
Yield strength has been determined by the 0.2% offset method.  
All Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6063 alloy.  
In accordance with EN 10204 Inspection Certificate Type 3.1  
Metallized in the USA or Other Qualified Countries as Defined by DEARS 225.672.1  
Made in USA

# THYSSENKRUPP MATERIALS NA

PO/Rel 20531

**DART AEROSPACE**  
ALUMINUM PLAT BAR 6061-T6511  
50" x 2.50" x 144.0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: William T. Martin, III

**Certificate of Mill Test Results**  
BL PEC-832058-002  
16Jul13  
Pg 1/3

**sapa**

Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE

Ship To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD

CONCORD, ON - L4K 5G6

## Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100398155	4	PEC-247872-4	SAPAS7768	1 of 3
			Cert Creation Date	Cert Trial Date
			02-MAY-13	02-MAY-13

Quantity Shipped	Unit	Date Shipped	Item Description	Specification
2397	LB	02-MAY-13	Estimated Rectangular Bar 0.500 TK x 2.500 W/ RAD	ASTM B221 REV 12A AMS-QQ-A-2008 REV 1997 ASME B221 REV 09 UNSWA90061 REV
424721		003361828	144,000 IN LN FIN MATH W/F 1.47 F04 CS 2.5 (6061/T6511) PARTING CONTINUOUS	
Delivery ID		Item No. Rev		
4422621				
Customer Part No.				
5X2.5				

Applicable Specifications, Revisions and Exemptions  
COMPOSITION NOTE: The values for 'Others Fac'd' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

**Legal Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title  
*William T. Martin, III*  
William Martin, III  
Tech/Quality Manager  
02-MAY-13

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight
G12-PKG1839570	21288872	40	PCS	711
G12-PKG1928652	21391318	32	PCS	570
G12-PKG1928672	21391318	30	PCS	535
G12-PKG1928672	21391318	-	-	-
G12-PKG1934198	21397829	34	PCS	605
				599

Composition Limits

# Certificate of Mill Test Results

BL PFC-832058-002

16Jul13  
Pg 2/3

**Signed by:**

**Signed by:**

BL PFC-832058-002

16Jul13  
Pg 2/3

SAPA INDUSTRIAL ESTIMATIONS  
53 POTTSVILLE STREET

Sapa Industrial Extractions  
53 POTTSVILLE STREET  
—  
CRESSONA, PA  
17929-0187

Page
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<b>Cert Number</b>	<b>Page</b>
SAPA257768	Page 2 of 3
<b>Cert Creation Date</b>	<b>Cert Print Date</b>
02-MAY-13	02-MAY-13

Heat / Cast	Si	Mn	Cu	Mo	Cr	Zn	Ti	Ni	P	Others Total
3001736	0.62	0.27	0.23	0.04	0.92	0.06	0.02	—	—	—
Heat / Cast	Si	Pb	Cu	Mo	Cr	Zn	Ti	Ni	P	Others Total
5030535	0.65	0.27	0.22	0.03	0.91	0.05	0.03	0.02	—	—
Heat / Cast	Si	Fe	Cu	Mo	Ni	Cr	Zn	Ti	P	Others Total
5031246	0.66	0.24	0.22	0.03	0.91	0.05	0.02	0.02	—	—

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6S11

50" x 2.50" x 144.0000"

PART NO.

P.O./Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-832058-002

16Jul13  
Pg 3/3

sapa

Sapa Industrial Extensions  
33 POTTSVILLE STREET  
CRENSHAW, PA  
17929-0187

Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100598155	4	PEC-241872-4	SAPA737768 Cert Creation Date 02-MAY-13	3 of 3 Page Cert Print Date 02-MAY-13

Test Type	UTS - L	TYS - L	EL 40-Long
UTS	KSI	KSI	PCT
Test Number			
16511	21397829	4	44.8
			46.9
			41.7
			43.8
			19.6
			20.1

Cert Notes

Products manufactured with a T6S11 temper also meet T8 temper requirements.

Yield strength has been determined by the 0.2% offset method

All Mill Finish Alloy produced at Sapa Extrusions comply with 0.4% Maximum Total per RodHS, with the exception of 5662 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Made in the USA or Other Qualified Countries as Defined by DEARS 225.872.1

Made in USA

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511  
.509" X 10.00" X 144.0000"  
PART NO.

PO/Rel 20531

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-832058-003

16Jul13

Signed by: 

Pg 1/1

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-249933-2		CUSTOMER PART NUMBER: W60/STK		PRODUCT DESCRIPTION: .500 X 10.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 647403	LINE ITEM: 002	SHIP DATE: 07/05/2013	KAISER LOT NUMBER: Z00191031	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1692.000 LB	QUANTITY: 24.000 PCS	B/L NUMBER: 606590	DIAM/DAF/THKNS: WIDTH:	LENGTH: 12.000 FT	
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00191031	0001	1	47.8	43.7	13.5	RE 94	N/A	N/A
Z00191031	0001	2	46.5	42.7	13.2	RE 94	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
102765	.72	.29	.24	.09	.94	.09	.04	.02	.00	.00	.00	.01	.03

### Applicable Requirements:

ASTM-B221-13 STENCILED ASME-S3221 1998 SECT II AMS-QQ-A-200/8 97(R07) UNS#A96061  
(T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY  
OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been  
inspected and tested and found in conformance with applicable specifications forming a part of the  
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on  
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager



Plant Serial: 00096637

Kaiser Order Number: 647403

Line Item: 002



# THYSSENKRUPP MATERIALS NA

PO/Rel 20531

Certificate of Mill Test Results

BL PEC-832058-004

16Jul13  
Pg 1/1

**DART AEROSPACE**  
ALUMINUM ELAT BAR 6061-T6511  
.750" x 1.00" x 144.0000"  
PART NO.

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by:

*[Signature]*



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
175012	10

BILL TO ThyssenKrupp Materials NA	MANUFACTURE NUMBER 188759	DIE NUMBER RB0111	DATE OF SHIPMENT 4/30/2013
SHIP TO ThyssenKrupp Materials NA, Toronto	CUSTOMER PO PEC-247920	ALLOY/TEMPER 6061-T6511	SALES PERSON David Schroeder
Quantity Certified 1,143 lbs 108 pcs	CUSTOMER PART NUMBER RB0111	DESCRIPTION SCRB .750x1.000	

CERTIFICATION ASTM-B221-12a StencilCont
SPECIFICATION AMS-QQA-200/B - 1997

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	2 201308343	4/27/13	min 53.00 max 54.00	min 49.80 max 51.00	min 12.85 max 14.45

*11/13/07/13*

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others
111823	6061	0.76	0.35	0.32	0.09	0.90	0.09	0.07	0.02	97.40	Total
											Melt Source:
											United States of America

Print Date: 4/30/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/23/11-LWS

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
750" X 1.50" X 144.0000"

PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-832058-005

16Jul13  
Pg 1/1

## Certificate of Mill Test Results



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

### CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
176913	6

#### BILL TO

ThyssenKrupp Materials NA

#### SHIP TO

ThyssenKrupp Materials NA, Toronto

Quantity Certified 1,143 lbs

72 pcs

CUSTOMER PART NUMBER RB0113

#### MANIFEST NUMBER

191112

#### DIE NUMBER

RB0113

#### DATE OF SHIPMENT

5/23/2013

#### CERTIFICATION

ASTM-B221-12a StencilCont

#### SPECIFICATION

AMS-QQA-200/B-1997

DESCRIPTION  
6061-T6511  
SCRB .750x1.500

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

#### Mechanical Properties

Tests Lot No.

201310405

#### Test Date

5/22/13

#### Ultimate Tensile Strength (KSI)

min 51.90

max 52.90

#### Yield Strength (KSI)

min 47.00

max 50.00

#### Percent Elongation

min 13.20

max 14.35

5/23/13

#### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source:
051231	6061	0.77	0.35	0.30	0.10	0.87	0.10	0.05	0.02	97.44	0.05	0.15	United States of America

Print Date: 5/23/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 8/23/11 - UMS

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
1.00" x 4.00" x 144.0000"  
PART NO.

P.O./Ref 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-832058-006

16Jul13  
Pg 1/1



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
179742	1

### BILL TO

ThyssenKrupp Materials NA

### SHIP TO

ThyssenKrupp Materials NA, Toronto

Quantity Certified 1,140 lbs 20 pcs

### MANIFEST NUMBER

194603

### CUSTOMER PO

PEC-249581

CUSTOMER PART NUMBER  
MRB1795

### DIE NUMBER

MRB1295

### DATE OF SHIPMENT

6/28/2013

### SALES PERSON

David Schroeder

DESCRIPTION  
6061-T6511  
MORB 1.000x4.000

### CERTIFICATION

ASTM-B221-12a StencilCont

### SPECIFICATION

AMS-QQA-200/8 - 1997

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

### Mechanical Properties

Tests Lot No.

6 201313249

Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
	min	max	min	max	min	max
6/28/13	46.20	54.90	43.50	51.40	11.85	16.10

8/13/2019

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
											Each	Total	
0413184	6061	0.67	0.30	0.31	0.09	0.84	0.08	0.07	0.02	97.62	0.05	0.15	United States of America
0413201	6061	0.70	0.30	0.32	0.09	0.87	0.09	0.05	0.02	97.56	0.05	0.15	United States of America
0513087	6061	0.67	0.26	0.33	0.08	0.87	0.08	0.04	0.02	97.65	0.05	0.15	United States of America

Print Date: 6/28/2013

Calvin J. Winans, Director of Quality & Technical Services

Rev. 923711 - LMS

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511  
1.00" x 6.00" x 144.0000"

PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

*[Signature]*

BL PEC-832058-007

16Jul13  
Pg 1/1



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23876

## CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
175662	6

**BILL TO**  
ThyssenKrupp Materials NA  
SHIP TO  
ThyssenKrupp Materials NA, Toronto  
Quantity Certified 1,778 lbs 21 pcs

**MANIFEST NUMBER** 189872  
**CUSTOMER PO** PEC-248148  
**CUSTOMER PART NUMBER** PL0130  
**DIE NUMBER** PL0130  
**DATE OF SHIPMENT** 5/10/2013  
**ALLOY / TEMPER** 6061-T6511  
**SALSPERSON** David Schroeder  
**DESCRIPTION** PL 1000x6.000

**CERTIFICATION**  
ASTM-B221-12a StencilCont  
SPECIFICATION  
AMS-QQA-200/8 - 1997

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	201309168	5/8/13	min 49.60 max 49.60	min 44.90 max 44.90	min 14.55 max 14.55

*5/10/13*

### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each Total	Melt Source:
0413197	6061	0.74	0.36	0.31	0.10	0.86	0.11	0.08	0.02	97.42	0.05	0.15
0413201	6061	0.70	0.30	0.32	0.09	0.87	0.09	0.05	0.02	97.56	0.05	0.15

United States of America  
United States of America

*[Signature]*

Print Date: 5/10/2013

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511

1.00" X 12.00" X 144.0000"

PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-832058-008

16Jul13

Pg 1/1

Signed by: 

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-249684-3		CUSTOMER PART NUMBER: ALREC01028		PRODUCT DESCRIPTION: 1.000 X 12.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 646680	LINE ITEM: 003	SHIP DATE: 06/28/2013	KAISER LOT NUMBER: Z00014042	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 6.000 PCS	B/L NUMBER: 606564	DIAM/DAF/THKNS: (Circled)	WIDTH:	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00014042	0001	1	50.3	46.1	15.7	RE 91	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

5/13/07/18

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
102610	.75	.31	.28	.10	.95	.09	.06	.02	.00	.00	.00	.01	.03

### Applicable Requirements:

PER ASTM-B221-13, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 (1997) UNS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager



Plant Serial: C0096203

Kaiser Order Number: 646680

Line Item: 003

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.50" x 3.00" x 144.0000"

PART NO.

PO/Rel 20531

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-832058-009

16Jul13  
Pg 1/1

## Certificate of Mill Test Results



**SERVICE CENTER METALS**  
5850 Quality Way  
Prince George, VA 23875

### CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
172124	2

BILL TO ThyssenKrupp Materials NA	MANIFEST NUMBER 185858	DIE NUMBER RB0140	DATE OF SHIPMENT 4/1/2013	CERTIFICATION ASTM-B221-12a StencilCont
SHIP TO ThyssenKrupp Materials NA, Toronto	CUSTOMER PO PEC-246883	ALLOY (TEMPER) 6061-T6511	SALES PERSON David Schroeder	SPECIFICATION AMS-QQA-2008 - 1997
Quantity Certified 1,536 lbs 24 pcs	CUSTOMER PART NUMBER RB0140	DESCRIPTION SCRB 1500X3.060		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

#### Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	2 201303343	2/20/13	min 49.10 max 50.40	min 47.90 max 48.20	min 15.15 max 15.40

8/13/07/19

#### Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Melt Source:
0213088	6061	0.73	0.36	0.32	0.11	0.91	0.11	0.05	0.02	97.39	0.05	0.15	United States of America
0213090	6061	0.73	0.36	0.31	0.09	0.85	0.09	0.06	0.02	97.49	0.05	0.15	United States of America

Print Date: 4/1/2013

Calvin J. Wiggins, Director of Quality & Technical Services

# THYSSENKRUPP MATERIALS NA

PO/Rel 20531

DART AEROSPACE  
ALUMINUM SQUARE BAR 6061-T6511  
4.50" X 96.0000"  
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

*[Signature]*

Certificate of Mill Test Results

BL PEC-832058-010

16Jul13  
Pg 1/2

**Sapa**

Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRENSHAW, PA  
17929-0167

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K5C6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD

CONCORD, ON - L4K5C6

## Certified Inspection Report

Sales Order Number	Line No.	Customer P/O	Cert Number	Page
1100602244	2	PEC-248106-002	SAPA757893	1 of 2
			Cert Creation Date	Cert Print Date
			02-MAY-13	02-MAY-13

Quantity Shipped	Unit	Date Shipped	Item Description	Specification
1150	LB	02-MAY-13	ACC-U-LINE Extended ACC-U-BAR	ASTM B221 RRV 12A
B/L		Item No.	1.500 TK +4.500 W. TK TOL +0.04/-0.00	IS-AUB REV
424743		003211227	W TOL +0.04/-0.00	AMS-QQ-A-2008 REV 1997
Delivery In		Item No. Rev	SECT 350605	Metcs 6061-T6511H, 6061-T6511 RRV
4425033			1.41,000 IN LN	
Customer Part No.			FIN M-MHT L	
4.55Q			W/P 23.993 F 1 CS 6.37	
			606176511H	
			Marking CONTINUOUS	

### Applicable Specifications, Revisions and Exceptions

ACC-U-BAR

COMPOSITION NOTE: The values for "Others Each" and "Others Total" have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

*William T. Martin, III*

William Martin III

Tech/Quality Manager

02-MAY-13

**Legal Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

### Quantities per Lot/Packages

Package Number	Lot Number	Quantity	UOM	Weight
G12-PKGI921012	21862208	4	PCS	1157
				1150

### Composition Limits

Alloy	Si	Fe	Cu	Mn	Mg	Ce	Zn
	Min	Max	Min	Max	Min	Max	Min
6061	0.40	0.80	0.10	0.15	0.15	0.80	1.20
							0.04
							0.35
							0.25

*8/3/13*

**PO/Rei 20531**

**We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.**

Signed by:

# Certificate of Mill Test Results

BL PEC-832058-010

16Jul13  
Pg 2/2

**Sapa Industrial Extrusions  
53 POTTSVILLE STREET**

# Certified Inspection Report

Alloy	Ti		Al		Pb		Others Each		Others Total	
	Min.	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	—	0.15	—	0.05	—	0.05	—	0.05	—	0.15

### Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	C	Zn	Ti	Bi	Pb	Others Back	Others Total
4030033	0.70	0.34	0.30	0.11	0.91	0.13	0.03	0.02	--	--	--	--
Heat / Cast	Si	Fe	Cu	Mn	Mg	C	Zn	Ti	Bi	Pb	Others Back	Others Total
4030129	0.77	0.43	0.33	0.12	0.94	0.15	0.06	0.02	--	--	--	--

### Mechanical Property - Test Limits

	Test Type	UTS - L	TYS - L	EL-40-Long
	IOM KSI	KSI	KSI	PCT
Total Tensile  Lot Number:  No Tests:	--  	--  	--  	--  
	MIN Value	MAX Value	MIN Value	MAX Value
T681H	SST	SST	S&L	S&L
T681H	219x2D6	7		12.2      12.2

### CERT NOTES

Prolocks manufactured with a T6511 temper also meet T6 temper requirements

Yield strength has been determined by the 0.2% offset method

All Mill Finish Alloys produced at Super Extrusions comply with 0.4% Maximum Lead per Rolls, with the exception of 6262 alloy

**In accordance with EN 10204 Inspection Certificate Type 3.1**

**Not Mailed in the USA or Other Qualified Countries as Defined by IRS 25.832.**

**Made in USA**



## B I L L O F L A D I N G

No: PEC 832058

## Ship From:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 16Jul13 at 9:42 From PFW  
Probill

Via VIM TRANSFER

FOB CONCORD

Frt PREPAID

Route 0- 0 Manifest

Vhcle Trailer

Slp STAN IVERS (905-532-1350)

Sold To: ( 20115)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

## Ship To: ( 1)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-586090- 1 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

.375" x 1.00" X 144.0000"

Heat Number

21385265

Tag No

198419

Quantity

36 FT

PCS

3

Wt LBS

16

MTR

2) Our Order PEC-586090- 2 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

.50" x 2.50" X 144.0000"

Heat Number

21288872

Tag No

198420

Quantity

12 FT

PCS

1

Wt LBS

17

MTR

3) Our Order PEC-586090- 3 Your PO # 20531

ALUMINUM FLT BAR ECONOPLT 6061-T6511

.500" X 10.00" X 144.0000"

Heat Number

Z00191031

Tag No

198421

Quantity

12 FT

PCS

1

Wt LBS

69

MTR

4) Our Order PEC-586090- 4 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

.750" x 1.00" X 144.0000"

Heat Number

201308343

Tag No

198422

Quantity

24 FT

PCS

2

Wt LBS

23

MTR

5) Our Order PEC-586090- 5 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

.750" X 1.50" X 144.0000"

Heat Number

201310405

Tag No

198423

Quantity

12 FT

PCS

1

Wt LBS

16

MTR

Page: 1 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE  
RAPPORTEES IMMEDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

## B I L L O F L A D I N G

No: PEC 832058

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 16Jul13 at 9:42 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE

Ship To: ( 1)  
 DART AEROSPACE

## B I L L O F L A D I N G

6) Our Order PEC-586090- 6 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

1.00" x 4.00" X 144.0000"

Heat Number

201313249

Tag No

198424

Quantity

36 FT

PCS

3

Wt LBS

174

MTR

7) Our Order PEC-586090- 7 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

1.00" x 6.00" X 144.0000"

Heat Number

201309168

Tag No

198425

Quantity

12 FT

PCS

1

Wt LBS

86

MTR

8) Our Order PEC-586090- 8 Your PO # 20531

ALUMINUM FLT BAR ECONOPLT 6061-T6511

1.00" X 12.00" X 144.0000"

Heat Number

Z00014042

Tag No

198426

Quantity

12 FT

PCS

1

Wt LBS

171

MTR

9) Our Order PEC-586090- 9 Your PO # 20531

ALUMINUM FLAT BAR 6061-T6511

1.50" x 3.00" X 144.0000"

Heat Number

201303343

Tag No

198427

Quantity

12 FT

PCS

1

Wt LBS

63

MTR

10) Our Order PEC-586090- 10 Your PO # 20531

ALUMINUM SQUARE BAR 6061-T6511

4.50" X 96.0000"

Heat Number

21382208

Tag No

198605

Quantity

8 FT

PCS

1

Wt LBS

192

MTR

	Tags	PCS	LBS
TOTAL:	10	15	827

Heat Number \*\*\* Chemical Analysis \*\*\*

Page: 2 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT  
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY  
 RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

SHIP FROM:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: ( 1 )  
 DART AEROSPACE

No: PEC 832058  
 Ship Date 16Jul13 at 9:42 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115 )  
 DART AEROSPACE

=====

B I L L O F L A D I N G

201303343  
 201308343  
 201309168  
 201310405  
 201313249  
 21288872  
 21382208  
 21385265  
 Z00014042  
 Z00191031

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
 TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
 \*\* REFERENCED ON IT \*\*

TOTAL 2 BDLs G.W. 874 LBS

ITEMS (1-9) BDL  
 ITEM (10) BDL

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
 CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
 ADDED TO EVERY ORDER.\*\*\*

Page: 3 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE  
 RAPPORTEES IMMEDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

# THYSSENKRUPP MATERIALS NA

**DART AEROSPACE**  
ALUMINUM PLAT BAR 6061-T6511  
375" x 1.00" x 144,000"  
PART NO.

P.O./Ref 20531

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by:

*J*

**Certificate of Mill Test Results**  
BL PBC-832058-001  
16Jul13  
Pg 1/2

**SAPPI**  
Saps Industrial Extension  
53 POTTSVILLE STREET  
CRESSONA, PA  
17929-0187

Saps Extrusions Inc., a Subsidiary of Saps AB

Invoice To Customer  
THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K-5C6

Ship To Customer  
THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD

CONCORD, ON - L4K5C6

## Certified Inspection Report

Sales Order Number 1100600218	Line No. 4	Customer POC WEC-248184-4	Part Number SAP-AY6004	Page 1 of 2
			Part Creation Date 07-MAY-13	Part Print Date 07-MAY-13

Quantity Shipped 730	Unit LB	Date Shipped 07-MAY-13	Item Description Rounded Rectangular Bar 0.375 TK x 1.000 W RAD 144,000 IN LN FIN 34-MILL W/F 0.041 P 06 CS 1.1 6061/T6511 Drinking CONTINUOUS	Specification ASTM B221 REV 12A AMS QQ-A-2006 REV 1997 ASME B221 REV 09 UNSMAD6061 REV
Del. 428122		Item No. Q0361530		
Delivery M 4124388		Item No. Rev 375X1		
Customer Part No. 375X1				

COMPOSITION NOTE: The values for "Others" and "Others Total" have met the limits as shown on this certified inspection report. Remainder is Aluminum.

**Report Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material and the composition and mechanical properties shown on the face of this certification. Also, note that mercury is not a normal constituent in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature And Title  
*William M. Hitt*  
William M. Hitt  
Tech/Quality Manager  
07-MAY-13

Quantities per Lot / Packages		Lot Number		Weight	
Packages Number	Lot Number	Quantity	Unit	Weight	Unit
G12 PBC1930230	2135285	138	PCS	706	730

Composition Limits											
Al	Si	Fe	Mn	Mg	Cu	Cr	Mo	Ni	P	S	Others
6061	0.40	0.80	0.70	0.15	0.40	0.15	0.80	1.20	0.04	0.35	0.25

**THYSSENKRUPP MATERIALS NA**  
**DART AEROSPACE**  
ALUMINUM HAT BAR 6061-T5511  
3/5" x 1.00" x 144.0000"  
PART NO.

P/O Ref: 20531  
We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

**Certificate of Mill Test Results**  
BL PEC-832058-001  
16Jul13  
Pg 2/2



Sapa Industrial Extrusions  
53 POTTSVILLE STREET  
CRISSON, PA  
17929-0187

### Certified Inspection Report

Sales Order Number: 1100603118 Line No.: 4 Customer P/O: PEC-248184-4

Cert Number: SAPA76904 Page: 2 of 2  
Cert Creation Date: 07-MAY-13 Cert Print Date: 07-MAY-13

Alloy	Temp	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	—	0.15	—	0.05	—	0.05	—	0.05	—	0.05	—	0.15	—

#### Composition Results

Element	Min	Max	Element	Min	Max	Element	Min	Max	Element	Min	Max
Si	0.02	0.26	Fe	0.05	0.05	Al	0.05	0.05	Si	0.02	0.02
Cu	0.02	0.25	Mn	0.05	0.05	Fe	0.05	0.05	Al	0.05	0.05
Mg	0.02	0.05	Si	0.05	0.05	Fe	0.05	0.05	Al	0.05	0.05
Zn	0.02	0.05	Mn	0.05	0.05	Fe	0.05	0.05	Al	0.05	0.05
Al	0.02	0.05	Si	0.05	0.05	Fe	0.05	0.05	Al	0.05	0.05

#### Mechanical Property - Test Limits

Property	Min	Max	Property	Min	Max	Property	Min	Max
UTS - L	481	481	UTS - L	481	481	EL. Elong	10.0	10.0
YTS - L	481	481	YTS - L	481	481	YTS - L	481	481
YS - L	481	481	YS - L	481	481	YS - L	481	481
TS - L	481	481	TS - L	481	481	TS - L	481	481
TS - L	481	481	TS - L	481	481	TS - L	481	481
TS - L	481	481	TS - L	481	481	TS - L	481	481
TS - L	481	481	TS - L	481	481	TS - L	481	481
TS - L	481	481	TS - L	481	481	TS - L	481	481
TS - L	481	481	TS - L	481	481	TS - L	481	481

**Part Notes**  
Products manufactured with a T5511 temper when meet T8 temper requirements.  
Yield strength has been determined by the 0.2% offset method.  
All Mill Finish Alloys produced in Sapa Extrusions comply with 0.4% maximum load per BarTS, with the exception of 6062 alloy.  
In accordance with EN 10204 Inspection Certificate Type 3.1  
Metel in the USA or Other Qualified Countries as Defined by DPA RS 226-872.1  
State in USA

# THYSSENKRUPP MATERIALS NA

P/O Ref 20531

ALUMINUM PLATE BAR 6061-T6S11  
50" x 2.50" x 144.0000"  
PART NO.

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results  
BL PBC-832058-002  
16Jul13  
Pg 1/3



Sapa Industrial Furnitures  
53 POTTSVILLE STREET  
CRENSHAW, PA  
17929-0187

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE

CONCORD, ON - L4K 5G6

Ship To Customer

THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD

CONCORD, ON - L4K 5G6

## Certified Inspection Report

Ships Order Number	Line No.	Customer TPO	Cert Number	Page
1100598155	4	PEC-247872-4	SAPAT57768	1 of 3
			Car Creation Date	Cert Print Date
			02-MAY-13	02-MAY-13

Quantity Shipped	Unit	Date Shipped	Item Description	Specification
2357	LB	02-MAY-13	Extruded Rectangular Bar 0.500 TK x 2.500 W RAD	ASTM B221 REV 12A AMS-QQ-A-200/8 REV 1997
B/L		Item No.	144.000 IN LN FIN M-MILL W/F 1.47 F 04 CS 2.5	ASTM B221 REV 09 UNS A90601 REV
424721		Order No.	6061/T6S11	
422621		Item No.	Marking CONTINUOUS	
CHASSISPART NO.				
5X2.5				

Applicable specifications, deviations and exceptions

COMPOSITION NOTE: The values for 'Others Heat' and 'Others Total' have not the limits as shown on  
this certified inspection report. Remainder is Aluminum.

Signature And Title

*William Mearls III*  
William Mearls III

02-MAY-13

Tech/Quality Manager

**Original Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and used in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material meet the composition and mechanical properties shown on the face of this certification. Also, note that recovery is not a normal constituent in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in part or in whole without prior written approval of our Quality Assurance Dept.

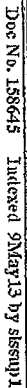
Quantities per Lot / Package

Material Number	Quantity	Unit	Weight	PCS
G12-PKGI830570	2128872	40	711	705
G12-PKGI928652	21391318	32	570	564
G12-PKGI928672	21391318	30	535	530
G12-PKGI928672	21391318	30	535	530
G12-PKGI934198	21397639	34	605	599

Composition Limits

## BL PEG-832058-002

16Jul13  
Pg 2/3



**THYSSENKRUPP MATERIALS NA**  
**DART AEROSPACE**  
ALUMINUM PLAT BAR 6061-T6511  
30" x 2.50" x 144.0000"  
PART NO.

P/O Ref 20831  
We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

**Certificate of Mill Test Results**  
BL PBC-832058-002  
16Jul13  
Pg 3/3

**SSAPP**  
Sara Industrial Equipment  
33 POTTSVILLE STREET  
CRENSHAW, PA  
17928-0187

**Certified Inspection Report**

Sales Order Number	Line No.	Customer E/O
1100598155	4	PEC-247872-4

Cert Number	Page
SAPA737768	3 of 3
Cert Creation Date	Cert Valid Date
02-MAY-13	02-MAY-13

TEST	UTS - L	YTS - L	EL 48-Lane
TEST 1	XS	XS	PCI
TEST 2	44.8	46.9	43.8
TEST 3	44.8	46.9	43.8
TEST 4	44.8	46.9	43.8
TEST 5	44.8	46.9	43.8
TEST 6	44.8	46.9	43.8
TEST 7	44.8	46.9	43.8
TEST 8	44.8	46.9	43.8
TEST 9	44.8	46.9	43.8
TEST 10	44.8	46.9	43.8
TEST 11	44.8	46.9	43.8
TEST 12	44.8	46.9	43.8
TEST 13	44.8	46.9	43.8
TEST 14	44.8	46.9	43.8
TEST 15	44.8	46.9	43.8
TEST 16	44.8	46.9	43.8
TEST 17	44.8	46.9	43.8
TEST 18	44.8	46.9	43.8
TEST 19	44.8	46.9	43.8
TEST 20	44.8	46.9	43.8
TEST 21	44.8	46.9	43.8
TEST 22	44.8	46.9	43.8
TEST 23	44.8	46.9	43.8
TEST 24	44.8	46.9	43.8
TEST 25	44.8	46.9	43.8
TEST 26	44.8	46.9	43.8
TEST 27	44.8	46.9	43.8
TEST 28	44.8	46.9	43.8
TEST 29	44.8	46.9	43.8
TEST 30	44.8	46.9	43.8
TEST 31	44.8	46.9	43.8
TEST 32	44.8	46.9	43.8
TEST 33	44.8	46.9	43.8
TEST 34	44.8	46.9	43.8
TEST 35	44.8	46.9	43.8
TEST 36	44.8	46.9	43.8
TEST 37	44.8	46.9	43.8
TEST 38	44.8	46.9	43.8
TEST 39	44.8	46.9	43.8
TEST 40	44.8	46.9	43.8
TEST 41	44.8	46.9	43.8
TEST 42	44.8	46.9	43.8
TEST 43	44.8	46.9	43.8
TEST 44	44.8	46.9	43.8
TEST 45	44.8	46.9	43.8
TEST 46	44.8	46.9	43.8
TEST 47	44.8	46.9	43.8
TEST 48	44.8	46.9	43.8
TEST 49	44.8	46.9	43.8
TEST 50	44.8	46.9	43.8
TEST 51	44.8	46.9	43.8
TEST 52	44.8	46.9	43.8
TEST 53	44.8	46.9	43.8
TEST 54	44.8	46.9	43.8
TEST 55	44.8	46.9	43.8
TEST 56	44.8	46.9	43.8
TEST 57	44.8	46.9	43.8
TEST 58	44.8	46.9	43.8
TEST 59	44.8	46.9	43.8
TEST 60	44.8	46.9	43.8
TEST 61	44.8	46.9	43.8
TEST 62	44.8	46.9	43.8
TEST 63	44.8	46.9	43.8
TEST 64	44.8	46.9	43.8
TEST 65	44.8	46.9	43.8
TEST 66	44.8	46.9	43.8
TEST 67	44.8	46.9	43.8
TEST 68	44.8	46.9	43.8
TEST 69	44.8	46.9	43.8
TEST 70	44.8	46.9	43.8
TEST 71	44.8	46.9	43.8
TEST 72	44.8	46.9	43.8
TEST 73	44.8	46.9	43.8
TEST 74	44.8	46.9	43.8
TEST 75	44.8	46.9	43.8
TEST 76	44.8	46.9	43.8
TEST 77	44.8	46.9	43.8
TEST 78	44.8	46.9	43.8
TEST 79	44.8	46.9	43.8
TEST 80	44.8	46.9	43.8
TEST 81	44.8	46.9	43.8
TEST 82	44.8	46.9	43.8
TEST 83	44.8	46.9	43.8
TEST 84	44.8	46.9	43.8
TEST 85	44.8	46.9	43.8
TEST 86	44.8	46.9	43.8
TEST 87	44.8	46.9	43.8
TEST 88	44.8	46.9	43.8
TEST 89	44.8	46.9	43.8
TEST 90	44.8	46.9	43.8
TEST 91	44.8	46.9	43.8
TEST 92	44.8	46.9	43.8
TEST 93	44.8	46.9	43.8
TEST 94	44.8	46.9	43.8
TEST 95	44.8	46.9	43.8
TEST 96	44.8	46.9	43.8
TEST 97	44.8	46.9	43.8
TEST 98	44.8	46.9	43.8
TEST 99	44.8	46.9	43.8
TEST 100	44.8	46.9	43.8

**Cert Notes:**  
Products manufactured with a T6511 temper also meet T6 temper requirements.  
Yield strength has been determined by the 0.2% offset method.  
All Mill Finish Alloys produced in Sign Extensions comply with U.S. Aluminum Level per R035, with the exception of 6062 alloy.  
In accordance with EN 10204 Inspection Certificate Type 3.1  
Metall in the USA or Other Qualified Countries as Defined by DEAPS 325.872.1  
Made in USA



# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOPLT 6061-T6511  
.500" X 10.00" X 14.0000"  
PART NO.

PO/Rel 20531

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PBC-832058-003

16Jul13

Signed by: 

Pg 1/1

**KAISER**  
**ALUMINUM**  
FABRICATED PRODUCTS

*Best in Class*

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-249933-2		CUSTOMER PART NUMBER: W60/STK		PRODUCT DESCRIPTION: .500 X 10.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 647403	LINE ITEM: 002	SHIP DATE: 07/05/2013	KAISER LOT NUMBER: Z00191031	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1692.000 LB	QUANTITY: 24.000 PCS	B/L NUMBER: 606590	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00191031	0001	1	47.8	43.7	13.5	RE 94	N/A	N/A
Z00191031	0001	2	46.5	42.7	13.2	RE 94	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
102765	.72	.29	.24	.09	.94	.09	.04	.02	.00	.00	.00	.01	.03

### Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 97(R07) UNS#A96061  
(T6511 also conforms to T6-not applicable to other tempers)

### Miscellaneous Notes

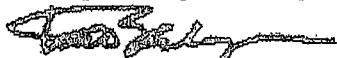
MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager



Plant Serial: 00096637  
Kaiser Order Number: 647403  
Line Item: 002

Page 1 of 1

THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM EXTRUDED BAR 6061-T6S11  
750" x 1.00" x 144,0000  
PART NO.

P.O./Ref 20531

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by:

*[Signature]*

Certificate of Mill Test Results  
BL PEC-832058-004  
160113  
Pg 1/1



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS  
FOR EXTRUDED PRODUCTS

FORM ORDER NUMBER	ITEM
175012	10

BILL TO	MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
ThyssenKrupp Materials NA	188759	RB0111	4/30/2013
SHIP TO	CUSTOMER PO	ALLOY / TEMPER	SALES PERSON
ThyssenKrupp Materials NA, Toronto	PEC-247920	6061-T6S11	David Schroeder
Quantity Certified	CUSTOMER PART NUMBER	DESCRIPTION	
1,143 lbs 108 pcs	RB0111	SCRB 750x1.000	

CERTIFICATION
ASTM-B221-12a StencilCont
SPECIFICATION
AMS-QQA-200/8 - 1997

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6S11 also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	2	201308343	min 53.00 max 54.00	min 49.80 max 51.00	min 12.85 max 14.45

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Melt Source:
111823	6061	0.76	0.35	0.32	0.09	0.90	0.09	0.07	0.02	97.40	Total	United States of America

Print Date: 4/30/2013

*[Signature]*

Cabin J. Mironis, Director of Quality & Technical Services



SERVICE CENTER METALS  
5830 Quality Way  
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS  
FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
176913	6

BILL TO ThyssenKrupp Materials NA	MANIFEST NUMBER 191112	DIE NUMBER RB0113	DATE OF SHIPMENT 5/23/2013	CERTIFICATION ASTM-B221-12a StencilCont
SHIP TO ThyssenKrupp Materials NA, Toronto	CUSTOMER PO PEC-248662	ALLOY / TEMPER 6061-T6611	SALES PERSON David Schroeder	SPECIFICATION AMS-QQA-200/B - 1997
Quantity Certified 1.143 lbs 72 pcs	CUSTOMER PART NUMBER RB0113	DESCRIPTION SCRB .750x1.500		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6S11 also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	4	201310405	min 51.90 max 52.90	min 47.00 max 50.00	min 13.20 max 14.35

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	II	AL	Each	Total	Others	Melt Source:
051231	6061	0.77	0.35	0.30	0.10	0.87	0.10	0.05	0.02	97.44	0.05	0.15		United States of America

Print Date: 5/23/2013

THYSSENKRUPP MATERIALS NA

DART AEROSPACE  
ALUMINUM EXTRUSION  
1.00" x 4.00" x 144,000  
PART NO.

PO/REL 20531

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

Signed by:

*[Signature]*

Certificate of Mill Test Results  
BL PEC-832058-006  
16Jul13  
Pg 1/1



SERVICE CENTER METALS  
5850 Quality Way  
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS  
FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
179742	1

BILL TO  
ThyssenKrupp Materials NA  
SHIP TO  
ThyssenKrupp Materials NA, Toronto  
Quantity Certified 1,140 lbs 20 pcs

MANIFEST NUMBER 194603  
CUSTOMER PO PEC-249581  
CUSTOMER PART NUMBER MRB1795

DIE NUMBER MRB1795  
ALLOY/TEMPER 6061-T6511  
DESCRIPTION MCPRB 1.000x4.000

DATE OF SHIPMENT 6/28/2013  
SALESPERSON David Schneider

CERTIFICATION  
ASTM-B221-12a StencilCont  
SPECIFICATION  
AMS-QQA-2008 - 1997

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	6	201313249	min 6/28/13	max 46.20	min 54.90
					max 43.50
					min 51.40
					max 11.85
					min 16.10

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others		Melt Source:
											Each	Total	
0413184	6061	0.67	0.30	0.31	0.09	0.84	0.08	0.07	0.02	97.62	0.05	0.15	United States of America
0413201	6061	0.70	0.30	0.32	0.09	0.87	0.09	0.05	0.02	97.56	0.05	0.15	United States of America
0513087	6061	0.67	0.26	0.33	0.08	0.87	0.08	0.04	0.02	97.65	0.05	0.15	United States of America

Print Date: 6/28/2013

Calvin J. Wiggins, Director of Quality & Technical Services

**THYSSENKRUPP MATERIALS NA**  
**DART AEROSPACE**  
 ALUMINUM PLAT BAR 6061-T6511  
 1.00" x 6.00" x 144.0000"  
 PART NO.

P.O./Ref 20531  
 We certify that this is a true copy of the report  
 furnished by the producer of the material, or data  
 resulting from tests made in approved labs.

Signed by:                     

**Certificate of Mill Test Results**  
 BL PEC-832058-007  
 16Jul13  
 Pg 1/1



**SERVICE CENTER METALS**  
 5850 Quality Way  
 Prince George, VA 23875

**CERTIFIED INSPECTION REPORT AND TEST RESULTS**  
**FOR EXTRUDED PRODUCTS**

OUR ORDER NUMBER	ITEM
175862	6

<b>BILL TO</b>	<b>MANIFEST NUMBER</b>	<b>DIE NUMBER</b>	<b>DATE OF SHIPMENT</b>	<b>CERTIFICATION</b>
ThyssenKrupp Materials NA	189872	PL0130	5/10/2013	ASTM-B221-12a StencilCont
<b>SHIP TO</b>	<b>CUSTOMER PO</b>	<b>ALLOY/TEMPER</b>	<b>SALES PERSON</b>	<b>SPECIFICATION</b>
ThyssenKrupp Materials NA, Toronto	PEC-248148	6061-T6511	David Schroeder	AMS-QQA-200/8 - 1997
<b>Quantity Certified</b>	<b>CUSTOMER PART NUMBER</b>	<b>DESCRIPTION</b>		
1,778 lbs	PL0130	PL 1.000x6.000		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

**Mechanical Properties**

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
			min	max	min	max	min	max
1	201309168	5/8/13	49.60	49.60	44.90	44.90	14.55	14.55

**Chemical Composition for Aluminum Alloy 6061**

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
											Each	Total	
0413197	6061	0.74	0.36	0.31	0.10	0.86	0.11	0.08	0.02	97.42	0.06	0.15	United States of America
0413201	6061	0.70	0.30	0.32	0.09	0.87	0.09	0.05	0.02	97.56	0.05	0.15	United States of America

Print Date: 5/10/2013

*Calvin J. Williams*

Calvin J. Williams, Director of Quality & Technical Services

# THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR ECONOFLT 6061-T6511  
1.00" X 12.00" X 144.0000"  
PART NO.

PO/Ref 20531

We certify that this is a true copy of the report  
furnished by the producer of the metal, or data  
resulting from tests made in approved labs.

## Certificate of Mill Test Results

BL PEC-832058-008

16Jul13

Pg 1/1

Signed by: 

**KAISER**  
**ALUMINUM**  
FABRICATED PRODUCTS

*Best in Class*

### CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-249684-3		CUSTOMER PART NUMBER: ALREC01028		PRODUCT DESCRIPTION: 1.000 X 12.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 646680	LINE ITEM: 003	SHIP DATE: 06/28/2013	KAISER LOT NUMBER: Z00014042	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 6.000 PCS	S/L NUMBER: 606564	DIA/M/DIA/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO:  THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00014042	003	1	50.3	46.1	15.7	RE 91	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zr	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
102610	.75	.31	.28	.10	.95	.09	.06	.02	.00	.00	.00	.01	.03

### Applicable Requirements:

PER ASTM-B221-13, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 (1997) UNS# A96061. MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

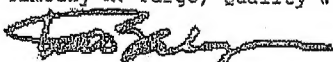
MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Timothy K. Fargo, Quality & Technology Manager



Plant Serial: C0096203

Kaiser Order Number: 646680

Line Item: 003

Page 1 of 1

**THYSSENKRUPP MATERIALS NA**  
**DART AEROSPACE**  
 ALUMINUM PLAT BAR 6061-T6511  
 1.50" x 3.00" x 144.0000"  
 PART NO.

PO/Rel 20531  
 We certify that this is a true copy of the report  
 furnished by the producer of the metal, or data  
 resulting from tests made in approved labs.

Certificate of Mill Test Results  
 BL PBC-832058-009  
 16Jul13  
 Pg 1/1



**SERVICE CENTER METALS**  
 5850 Quality Way  
 Prince George, VA 23875

**CERTIFIED INSPECTION REPORT AND TEST RESULTS**  
**FOR EXTRUDED PRODUCTS**

OUR ORDER NUMBER	ITEM
172124	2

<b>BILL TO</b>	<b>MANIFEST NUMBER</b>	<b>DIE NUMBER</b>	<b>DATE OF SHIPMENT</b>	<b>CERTIFICATION</b>
ThyssenKrupp Materials NA	185858	RB0140	4/1/2013	ASTM-B221-12a StencilCont
<b>SHIP TO</b>	<b>CUSTOMER NO.</b>	<b>ALLOY/TEMPER</b>	<b>SALES PERSON</b>	<b>SPECIFICATION</b>
ThyssenKrupp Materials NA, Toronto	PEC-246883	6061-T6511	David Schroeder	AMS-QQA-2008 - 1997
<b>Quantity Certified</b>	<b>CUSTOMER PART NUMBER</b>	<b>DESCRIPTION</b>		
1,536 lbs	RB0140	SCRB 1.500X3.000		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

**Mechanical Properties**

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	201303343	2/20/13	min 49.10 max 50.40	min 47.90 max 48.20	min 15.15 max 15.40

**Chemical Composition for Aluminum Alloy 6061**

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source
0213088	6061	0.73	0.36	0.32	0.11	0.91	0.11	0.05	0.02	97.39	0.05	0.15	United States of America
0213090	6061	0.73	0.36	0.31	0.09	0.85	0.09	0.06	0.02	97.49	0.05	0.15	United States of America

Print Date: 4/1/2013

Calvin J. Wiggalls, Director of Quality & Technical Services

# THYSSENKRUPP MATERIALS NA

## DART AEROSPACE

ALUMINUM SQUARE BAR 6061-T6511  
4.50" X 96.0000"  
PART NO.

PO/Ref: 20531  
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results  
BL PFC-932058-010  
16Jun13  
Pg 1/2

**SAPPA**  
Sapa Industrial Extrusions  
33 POTTSVILLE STREET  
CHESBONA, PA  
17928-0187

Sapa Extrusions Inc., a subsidiary of Sapa AB  
Inmate To Customer  
THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
ATTN: ACCOUNT PAYABLE  
CONCORD, ON - L4K 5C6  
Ship To Customer  
THYSSENKRUPP MATERIALS NA INC  
2821 LANGSTAFF ROAD  
CONCORD, ON - L4K5C6

### Certified Inspection Report

Sales Order Number 110602244	Line No. 2	Customer PO PFC-248106-002	Cert Number SAPAT57893	Page 1 of 2
			Cert Creation Date 02-MAY-13	Cert Print Date 02-MAY-13

Quantity Shipped	Unit	Date Shipped	Item Description	Specification
1130	LB	02-MAY-13	ACC-U-BAR Extended ACC-U-BAR	ASTM B221 REV 12A IS-AUB REV AAH-QQ-A-2008 REV 1997 Mater 6061-T6511F, 6061-T6511F
424743		Item No. 002011227	4.500 TR x 4.500 W TR TOL +.034/-000 W TOL +.034/-000 SECT 550005 1.941000 IN LN FIN N-MTL W/F 23.993 F 1 CS 6.37 068176511H	
4425033		Item No. Rev		
4.500		Customer No.	Matching CONTINUOUS	

Application Specifications, Revisions and Exceptions  
ACC-U-BAR  
COMPOSITION NOTE: The values for Chlorine, Fluorine and Oxygen Total have met the limits as shown on this certified inspection report. Remainder is Aluminum.

**Legal Statement**  
We hereby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and tested in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that property is not a normal requirement in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Signature and Title  
*William T. Martin, III*  
William Martin III  
Tech/Quality Manager  
02-MAY-13

Quantities per Lot / Packages	Lot Number	Quantity	UOM	Weight
Package Number G12-PFC01921012	21362208	4	PCS	1137
				1130

Composition Limits

Alloy	Si	Mn	Pb	Fe	Cu	Mg	Cr	Zn
6061	0.40	0.80	0.10	0.15	0.15	1.20	0.04	0.25



